## **LISTING OF CLAIMS**

- 6. (currently amended) A method <u>for identifying a protein, polypeptide or peptide</u>
  secreted by an enriched population of adipocytes comprising:
- than 90%] an enriched population of at least 90% cells which exhibit characteristics of an adipocyte adipocytes, [; and] wherein (a) the preadipocytes are not immortalized cells, (b) the differentiation is achieved in a cell culture medium that comprises a concentration of a cyclic AMP inducer, insulin, an insulin analog, a peroxisome proliferator-activated receptor gamma agonist, or a retinoid X receptor agonist sufficient to stimulate differentiation of the preadipocytes, (c) the preadipocytes are plated at a density of at least 25,000 cells/cm<sup>2</sup>; and
- (ii) identifying a protein, polypeptide or peptide secreted by the enriched population.
- 7. (currently amended) The method of claim 6, wherein the [differentiation is achieved in a medium that comprises a factor selected from the group consisting of glucose, isobutylmethylxanthine, insulin, an insulin analogue, peroxisome proliferator-activated receptor gamma agonist, and a retinoid X receptor agonist] cAMP inducer is isobutylmethylxanthine or forskolin.
- 8. (currently amended) The method of claim 6, wherein the [factor is a peroxisome proliferator activated receptor gamma agonist] cell culture medium comprises a glucocorticoid selected from the group consisting of dexamethasone, hydrocortisone and cortisol.

- 9. (currently amended) The method of claim 6, wherein the [factor is a retinoid X receptor agonist] peroxisome proliferator-activated receptor gamma agonist is a thiazolidinedione.
- 10. (previously amended) The method of claim 6, wherein prior to differentiating them, the preadipocytes are plated at a density of about 25,000 to 30,000 cells/cm<sup>2</sup>.
  - 11. The method of claim 6, wherein the compound identified is a protein.
  - 12. The method of claim 6, wherein the compound identified is a peptide.
  - 13. The method of claim 6, wherein the differentiated cells are genetically modified.
- 14. (currently amended) The method of claim 6, wherein the isolated human preadipocytes are differentiated into a [greater than] 95% enriched population of [cells which exhibit characteristics of an adipocytes] adipocytes.
  - 15. The method of claim 6, wherein the compound identified is a polypeptide.
- 16. (new) The method of claim 6, wherein prior to differentiating them, the preadipocytes are plated at a density of about 25,000 to 40,000 cells/cm<sup>2</sup>.